IMPORTANT INSTRUCTIONS - OPERATING MANUAL

Models: P1030M, P1036M, P1830M, P1836M, P1848M

Air King Ventilation Products®

Outdoor Kitchen Professional Range Hood Series

READ AND SAVE THESE INSTRUCTIONS

READ CAREFULLY BEFORE ATTEMPTING TO ASSEMBLE, INSTALL, OPERATE OR MAINTAIN THE PRODUCT DESCRIBED. PROTECT YOURSELF AND OTHERS BY OBSERVING ALL SAFETY INFORMATION. FAILURE TO COMPLY WITH INSTRUCTIONS COULD RESULT IN PERSONAL INJURY AND/OR PROPERTY DAMAGE!

RETAIN INSTRUCTIONS FOR FUTURE REFERENCE.

GENERAL SAFETY INFORMATION

When using electrical appliances, basic precautions should always be followed to reduce the risk of fire, electric shock and injury to person, including the following:

WARNING: TO REDUCE THE RISK OF FIRE, ELECTRIC SHOCK AND INJURY TO PERSON, OBSERVE THE FOLLOWING:

a) Use this unit only in the manner intended by the manufacturer.If you have questions, contact the manufacturer.

b) Before servicing or cleaning the unit, switch power off at service panel and lock the service disconnecting means to prevent power from being switched on accidentally. When the service disconnecting means cannot be locked, securely fasten a prominent warning device, such as a tag, to the service panel.

WARNING: TO REDUCE THE RISK OF FIRE, ELECTRIC SHOCK AND INJURY TO PERSON, OBSERVE THE FOLLOWING:

a) Installation work and electrical wiring must be done by qualified person(s) in accordance with all applicable codes and standards, including fire-related construction.

b) Sufficient air is needed for proper combustion and exhausting of gases through the flue (chimney) of fuel burning equipment to prevent back drafting. Follow the heating equipment manufacturer's guideline and safety standards such as those published by the National Fire Protection Association (NFPA) and the American Society for Heating, Refrigeration, and Air Conditioning Engineers (ASHRAE), and the local code authorities.

c) When cutting or drilling into wall or ceiling, do not damage electrical wiring and other hidden utilities.

CAUTION: TO REDUCE THE RISK OF FIRE AND TO PROPERLY EXHAUST AIR, BE SURE TO DUCT AIR OUTSIDE - DO NOT VENT EXHAUST AIR INTO SPACES WITHIN WALLS OR CEILINGS OR INTO ATTICS, CRAWL SPACES, OR GARAGES.

d) Ducted fans must always be vented to the outdoors.

e) This unit must be grounded.

f) To avoid motor bearing damage and noisy and/or unbalanced impellers, keep drywall spray, construction dust, etc. off power unit.

g) Read all instructions before installing or using exhaust fan.

WARNING: TO REDUCE THE RISK OF FIRE, ELECTRIC SHOCK, DO NOT USE THIS FAN WITH ANY SOLID-STATE SPEED CONTROL DEVICE.

WARNING: TO REDUCE THE RISK OF A RANGE TOP GREASE FIRE:

a) Never leave surface units unattended at high settings. Boilovers cause smoking and greasy spillovers that may ignite. Heat oils slowly on low or medium settings.

b) Always turn hood ON when cooking at high heat or when flambéing food (ie. Crepes Suzette, Cherries Jubilee, Peppercorn Beef Flambé).

c) Clean ventilating fans frequently. Grease should not be allowed to accumulate on fan filter.

d) Use proper pan size. Always use cookware appropriate for the size of the surface element.

WARNING: TO REDUCE THE RISK OF INJURY TO PERSONS IN THE EVENT OF A RANGE TOP GREASE FIRE, OBSERVE THE FOLLOWING:

a) SMOTHER FLAMES with a close-fitting lid, cookie sheet, or metal tray, then turn off burner. BE CAREFUL TO PREVENT BURNS. If the flames do not go out immediately, EVACUATE AND CALL THE FIRE DEPARTMENT.

b) NEVER PICK UP A FLAMING PAN - You may be burned.

c) DO NOT USE WATER, including wet dishcloths or towels - a violent steam explosion will result.

d) Use an extinguisher ONLY if:

I. You know you have a Class ABC extinguisher, and you already know how to operate it.

II. The fire is small and contained in the area where it started.

III. The fire department is being called.

IV. You can fight the fire with your back to an exit.

WARNING: TO REDUCE THE RISK OF FIRE, USE ONLY METAL DUCTWORK.

SAVE THESE INSTRUCTIONS

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INSTALLATION INSTRUCTIONS

CAUTION: MAKE SURE POWER IS SWITCHED OFF AT SERVICE PANEL BEFORE STARTING INSTALLATION.

NOTE: Outdoor Kitchen Professional Range Hoods are approved for use in covered outdoor kitchens only. Proper duct adapters, ducting, chimneys, roof/wall caps, etc. must be utilized as called out in the following instructions. Do not install the hood in an uncovered area directly exposed to the elements.

SECTION 1

Preparing the Range Hood

1. Unpack hood from the carton and confirm that all pieces are present. In addition to the range hood you should have:
   - 1 - Package containing:
     - 3 - 2" wood screws
     - 8 - 3/4" wood screws (36" models: 12 / 42", 48" models: 16)
     - 4 - wall anchors (36" models: 6 / 42", 48" models: 8)
   - 30" models: 2 - PHGB3 large baffles, one spacer
   - 36" models: 2 - PHGB3 large baffles, one PHGB1 small baffle
   - 42" models: 2 - PHGB3 large baffles, one PHGB2 medium baffle
   - 48" models: 3 - PHGB3 large baffles, two spacer
   - 1 - Grease trough
   - 2 - Halogen Lamps (some models include 3)
   - 1 - Wood mounting strip
   - 1 - Instruction/Safety Sheet

NOTE: Some hoods may be shipped with a protective plastic adhered to the range hood. It is recommended to leave this in place during installation to protect the hood from scratching. Remove when the installation is complete.

2. Remove the wood mounting strip attached to the back of the hood and place in a secure place. You will need this strip later **(Figure 1).**

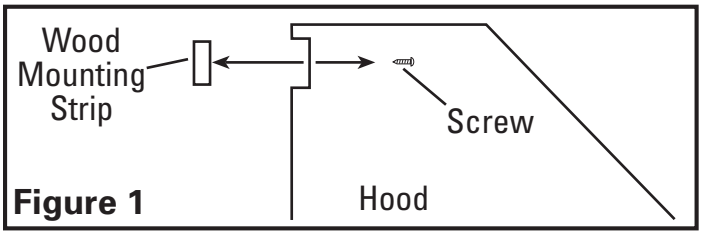

Figure 1

3. Remove the two screws securing the grease trough in place. These have been installed for protection during shippingg **(Figure 2)**.

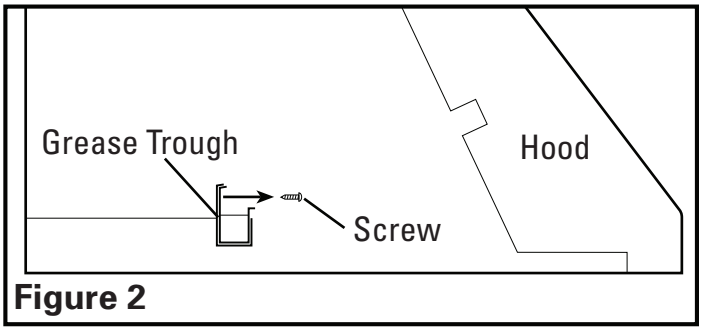

Figure 2

CAUTION: MAKE SURE POWER IS SWITCHED OFF AT SERVICE PANEL BEFORE STARTING INSTALLATION.

CAUTION: WHEN CUTTING OR DRILLING INTO WALL DO NOT DAMAGE ELECTRICAL WIRING AND OTHER HIDDEN UTILITIES.

SECTION 2

Measuring the Hood Installation

NOTE: Before installing any parts or marking locations, make sure you have decided how your ducting will be installed. You may need to modify the wall structure as described in ***Section 5 Wall Mounted Canopy Installation*** or ***Section 6 Under Cabinet Canopy Installation***.

1. The measurements for the installation will be custom to your specific location and will be dependent upon exact ceiling height, distance mounted from cooking surface, cabinet or soffit heights, along with other factors and will need to be adjusted accordingly. The hood must be mounted a minimum of 24" and a maximum of 36" from the cooking surface **(Figure 3).**

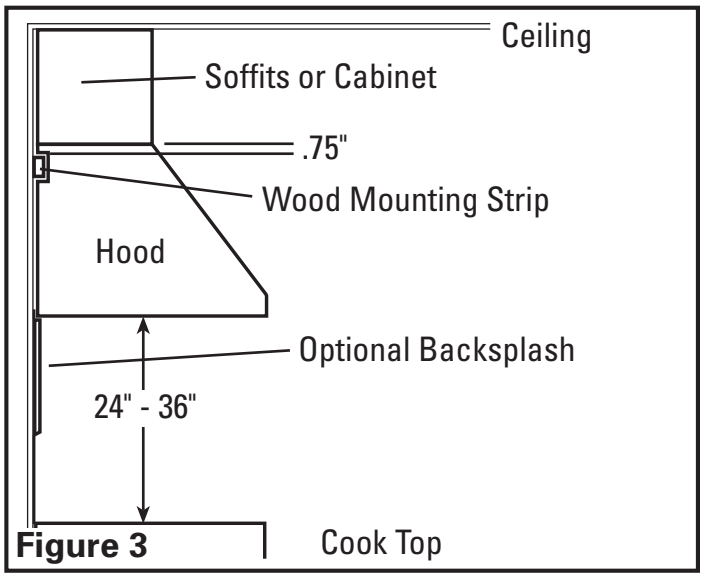

Figure 3

NOTE: When determining the height of the canopy from the cooking surface, be sure to take into consideration items such as back splashes with shelves and other accessories that might need more clearance under the canopy.

SECTION 3

Measuring the Installation

1. Determine where the top of the hood will be located within your installation **(Figure 4).**

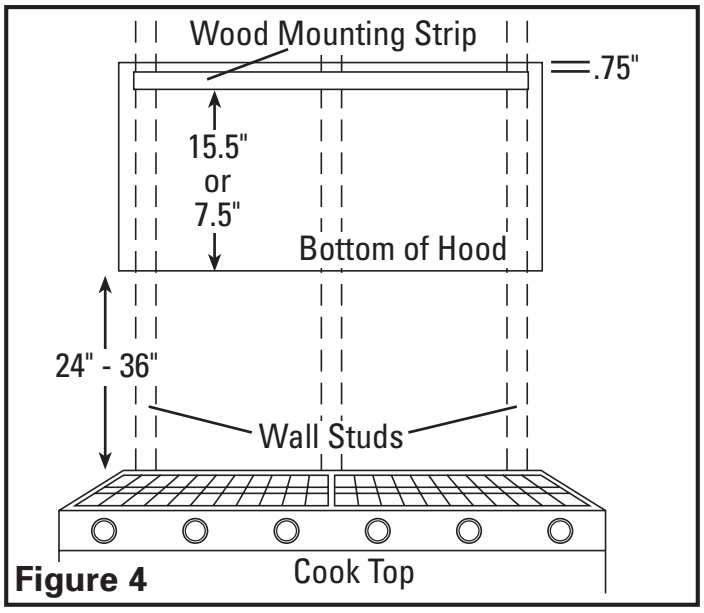

Figure 4

2. Attach the wood strip that was removed in ***Section 1*** *Step 2* in place and confirm it is level. Secure in place using the provided 2" mounting screws making sure the screws are fastening into the wall studs **(Figure 5).**

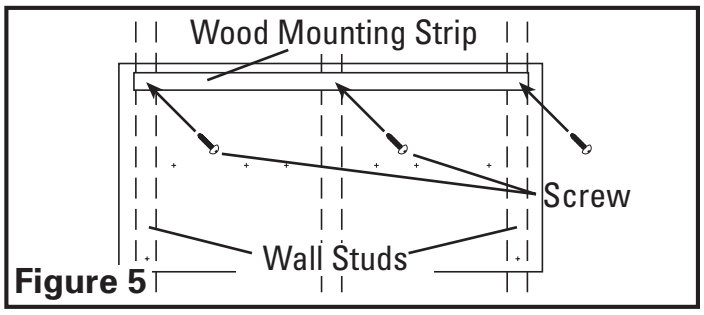

Figure 5

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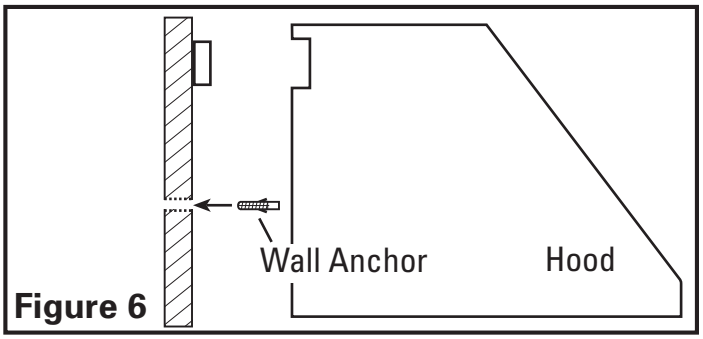
CAUTION: DUE TO THE WEIGHT OF THE HOOD, ENSURE THE WOOD STRIP IS FASTENED TO ALL AVAILABLE WALL STUDS (A MINIMUM OF 2 STUDS FOR 30" HOODS, MORE AS THE WIDTH INCREASES) NOT INTO THE DRYWALL ALONE.

CAUTION: SUPPORT THE HOOD UNTIL IT IS FULLY INSTALLED ONTO THE WOOD MOUNTING STRIP.

3. Rest the cavity in the back side of the hood on the wood strip and mark drilling locations on the wall for wall anchors on the bottom rear of the hood then remove hood and install wall anchors **(Figure 6).**



SECTION 4
Installing Backsplash

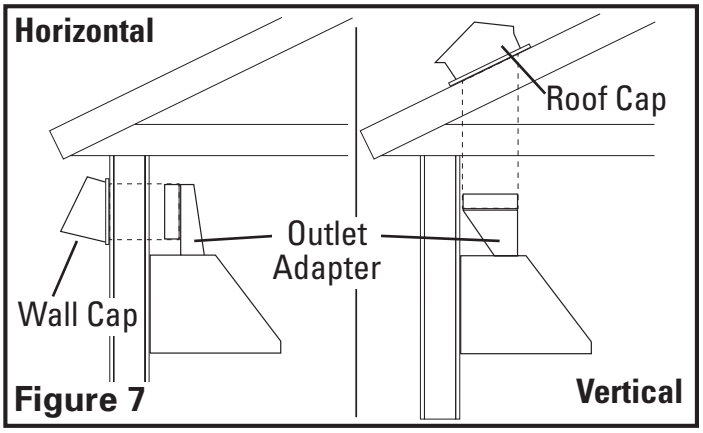
1. If an optional BS Series backsplash will be utilized, this must be installed before the hood canopy because the hood canopy will cover the backsplash mounting screws. Refer to the instructions included with the backsplash for installation.

SECTION 5
Wall Mounted Canopy Installation

CAUTION: ALL DUCTING MUST COMPLY WITH LOCAL AND NATIONAL BUILDING CODES.

WARNING: TO REDUCE THE RISK OF FIRE, USE ONLY METAL DUCTWORK.

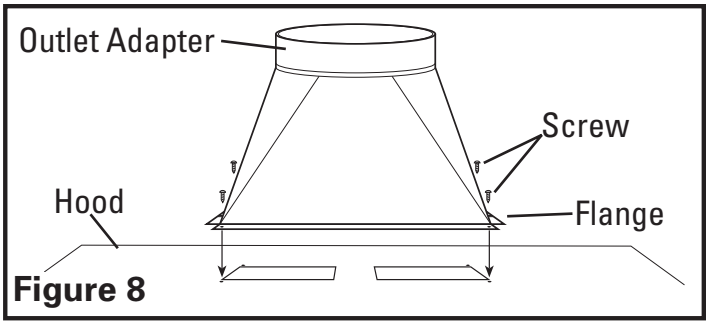
1. Determine the type of ducting you will require **(Figure 7).**



NOTE: For models using the B300, B500, or B600 blowers, a minimum of 6" diameter outlet adapter & ducting is required to achieve the proper air flow. The B900 requires a minimum 8" diameter adapter and ducting, while the B1125 requires a minimum 10" diameter adapter and ducting.

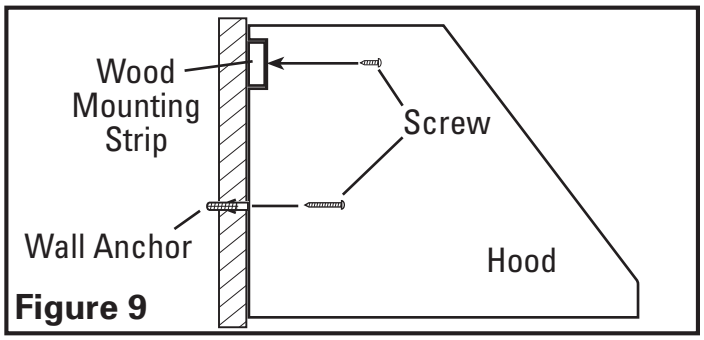
NOTE: When the duct termination is similar to that shown in **Figure 6** (passing through the wall to which the hood is mounted) the installation requires special consideration. Depending upon where the wall studs are located, it may be necessary to cut one or more of the wall studs and install a header and footer to transfer the load to the adjacent studs. Additional studs may need to be framed into the opening to attach dry wall or secure the hood. If this is your situation Air King recommends that you hire a professional and comply with all applicable codes.

2. Install the proper sized outlet adapter (available separately) to the hood by matching up the four holes on the flange of the adapter to the four corresponding holes on the hood and secure in place with the provided screws. Ensure an airtight seal around the adapter by securing all connections with ducting tape **(Figure 8).**

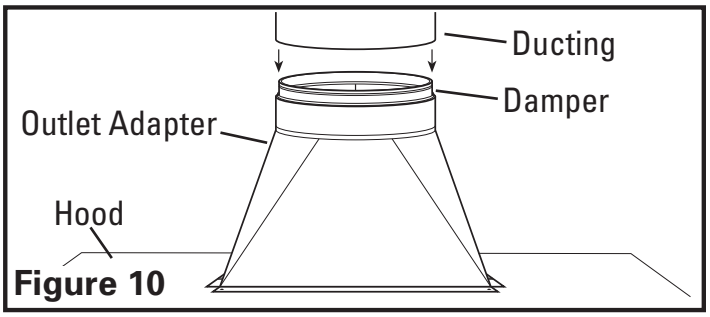


NOTE: If the recommended, optional BS Series backsplash is being installed it must be installed before the hood canopy because the hood canopy will cover the backsplash mounting screws. Refer to the instructions included with the backsplash for complete installation instructions.

3. Rest the cavity in the back side of the hood on the wood strip and secure hood to wood strip with the included 3/4" screws through the holes in the back of the hood that line up with the wood strip (use 6 screws for 30" and 36" widths and 8 screws for larger widths) Secure the bottom of the hood by installing the screws provided into the wall anchors **(Figure 9).**

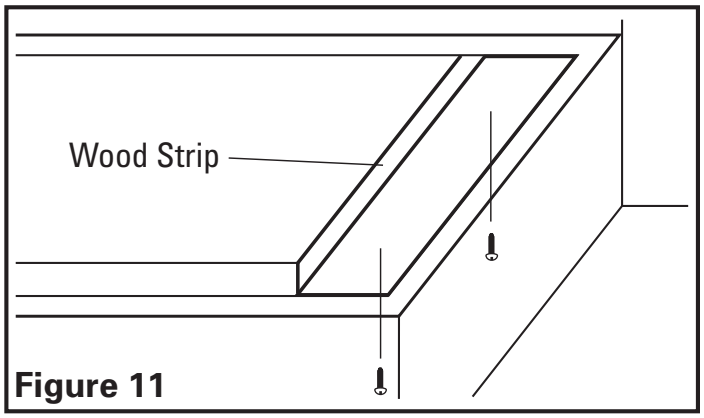


4. Connect the ducting to the outlet adapter and damper. Secure in place using tape to seal all joints **(Figure 10).**



SECTION 6
Under Cabinet Canopy Installation

1. If the canopy will be installed under cabinets that have a recessed bottom, it will be necessary to install wood mounting strips (not included) so the canopy will mount properly **(Figure 11).**



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2. The thickness of the strips should be the same as the recess of the cabinet and they should be approximately 2" wide.
3. Install the strips using appropriate length wood screws (not included). Make sure the strips line up to the holes in the top of the canopy.
4. Mark the location where the outlet adapter (available separately) will be located on the cabinets and cut a hole approximately 1" larger on all sides than the outlet adapter **(Figure 12).**

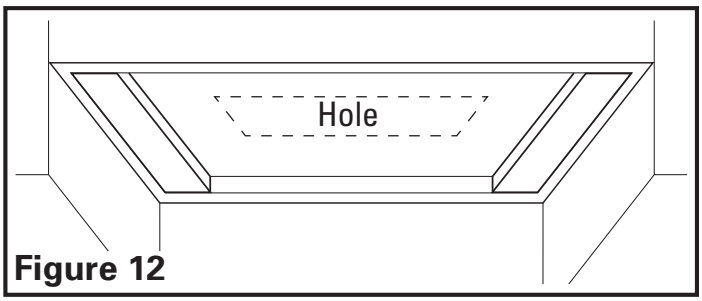

Figure 12

NOTE: If the recommended, optional BS Series backsplash is being installed it must be installed before the hood canopy because the hood canopy will cover the backsplash mounting screws. Refer to the instructions included with the backsplash for complete installation instructions.

5. Rest the cavity in the back side of the hood on the wood strip and secure hood to wood strip with the included 3/4" screws through the holes in the back of the hood that line up with the wood strip (use 6 screws for 30" and 36" widths and 8 screws for larger widths) Secure the bottom of the hood by installing the screws provided into the wall anchors **(Figure 13).**

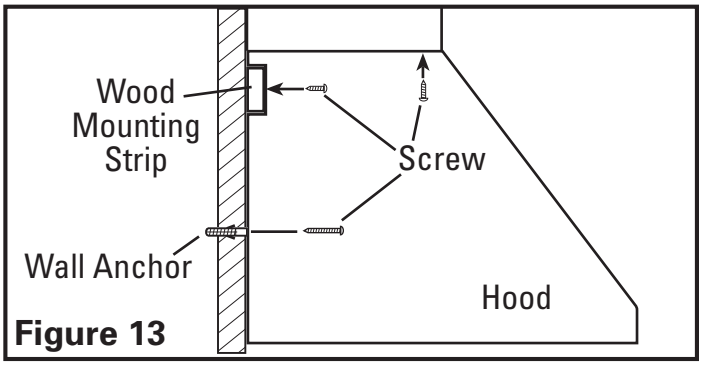

Figure 13

6. From inside the hood canopy, secure hood to the underside of the cabinet by using four wood screws (not included) through the keyhole slots of the hood **(Figure 13).**

CAUTION: ALL DUCTING MUST COMPLY WITH LOCAL AND NATIONAL BUILDING CODES.

WARNING: TO REDUCE THE RISK OF FIRE, USE ONLY METAL DUCTWORK.

7. Determine the type of ducting you will require **(Figure 14).**

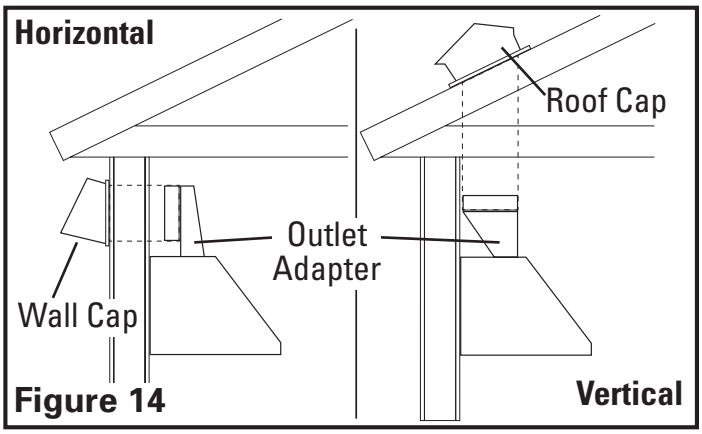

Figure 14

NOTE: For models using the B300, B500, or B600 blowers, a minimum of 6" diameter outlet adapter & ducting is required to achieve the proper air flow. The B900 requires a minimum 8" diameter adapter and ducting, while the B1125 requires a minimum 10" diameter adapter and ducting.

NOTE: When determining the outlet adapter to be used, make sure to consider the clearance within the cabinet space. Typically a horizontal Outlet Adapter will need to be used if you will be venting out to a wall cap.

NOTE: When the duct termination is similar to that shown in **Figure 14** (passing through the wall to which the hood is mounted) the installation requires special consideration. Depending upon where the wall studs are located, it may be necessary to cut one or more of the wall studs and install a header and footer to transfer the load to the adjacent studs. Additional studs may need to be framed into the opening to attach dry wall or secure the hood. If this is your situation Air King recommends that you hire a professional and comply with all applicable codes.

8. Install the proper sized outlet adapter (available separately) to the hood by sliding it down into the hole cut earlier and matching up the four holes on the flange of the adapter to the four corresponding holes on the hood and secure in place with the provided screws. Ensure an airtight seal around the adapter by securing all connections with ducting tape **(Figure 15).**

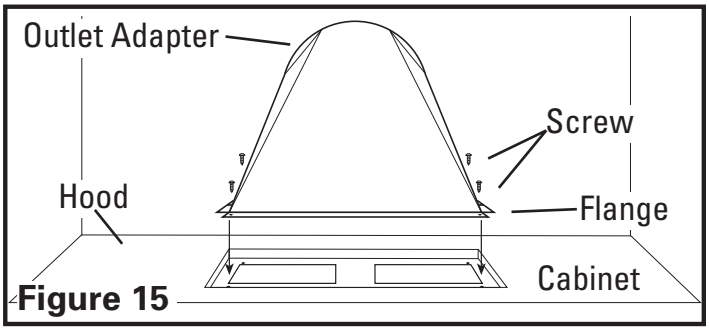

Figure 15

9. Connect the ducting to the outlet adapter and damper. Secure in place using tape to seal all joints **(Figure 16).**

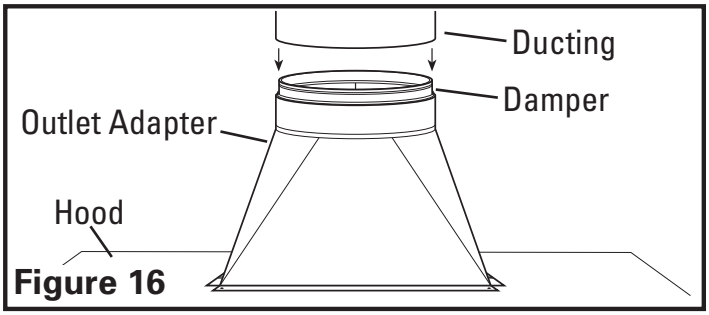

Figure 16

SECTION 7
Wiring

CAUTION: ALL ELECTRICAL CONNECTIONS MUST BE MADE IN ACCORDANCE WITH LOCAL CODES, ORDINANCES, OR NATIONAL ELECTRICAL CODE. IF YOU ARE UNFAMILIAR WITH METHODS OF INSTALLING ELECTRICAL WIRING, SECURE THE SERVICES OF A QUALIFIED ELECTRICIAN.

1. Remove the two wire compartment cover screws to gain access into the wire compartment **(Figure 17).** Connect the white wire from the range hood to the white wire from the supply, and the black wire from the range hood to the black wire of the supply. Connect the ground wire from the home (green or bare) to the ground wire (green) from the hood. Use approved methods for all connections **(Figure 18).**
2. Replace the wire compartment cover and tighten screws. Make sure all wiring is securely contained within the wire compartment. If the quick connect wire connector was removed from the receptacle, replace. The connector will only fit one way into the receptacle **(Figure 17).**

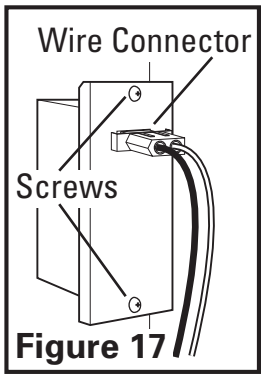

Figure 17

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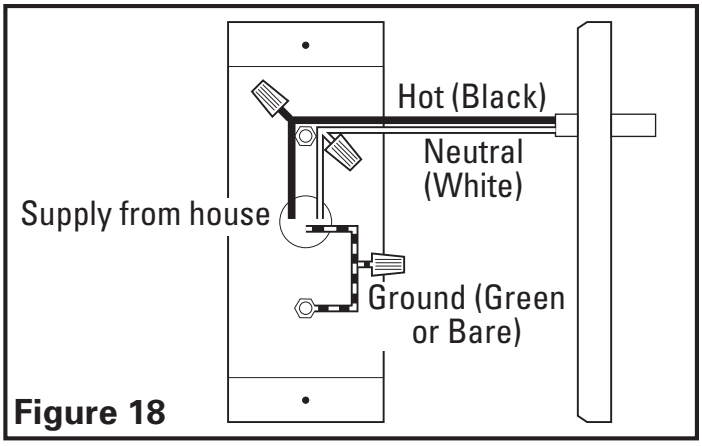

Figure 18

SECTION 8
Installing the Blower

1. Refer to the instructions included with the blower for installation.

SECTION 9
Installing the Optional Soffits

1. Refer to the instructions included with the specific soffit(s) you have chosen for installation.

SECTION 10
Finishing the Installation

1. Install the proper lighting for your specific unit:

   Halogen Lamps: Use PAR16 medium base 45W maximum lamps (available separately). Install by inserting lamp into socket and turning clockwise until lamp is firmly seated. DO NOT over tighten.

   Heat Lamps: Use type R40, medium base IR 250W max lamps only (available separately). Install by inserting lamp into socket and turning clockwise until lamp is firmly seated. DO NOT over tighten.

2. If the included removable grease trough is not already installed within the hood, insert into the rear inside channel of the hood. Make sure the taller side of the trough is facing towards the back of the hood **(Figure 19).**

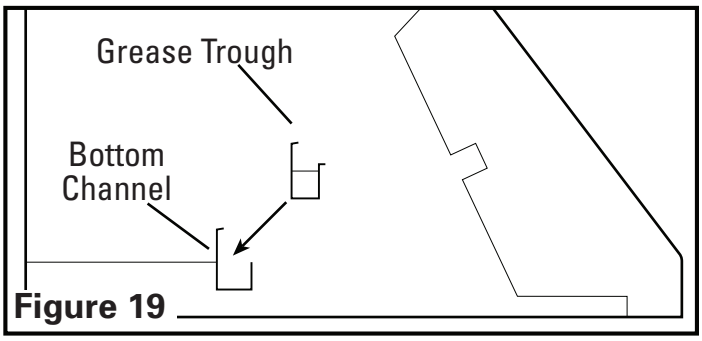

Figure 19

3. Install the baffle filters along with any spacer bars that are required by inserting the top of the filter into the top channel of the hood, then slide the bottom of the filter into the bottom channel. The filters have a top and a bottom. The bottom of the filter will have small drain holes. These holes must be facing down towards the grease trough to be effective. In models with spacers, it is easiest to install the spacer(s) first and the grease filters last **(Figure 20).**

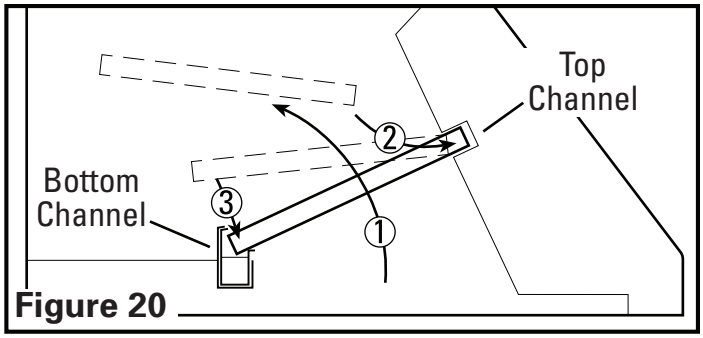

Figure 20

SECTION 11
Operation

Controls

Your Range Hood is equipped with two rotary switches with one controlling the lighting and the other controlling the exhaust fan blower. The light switch has three positions, High, Low, and Off. The fan switch has four positions, Off, High, Medium, and Low **(Figure 21).**

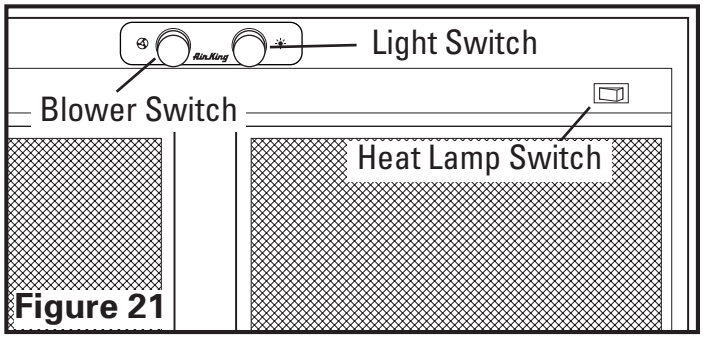

Figure 21

NOTE: On installation where a One (1) speed blower is utilized, all blower control speeds operate at the same speed. On installation where a Two (2) speed blower is utilized, the Medium and High speeds operate at the same speed.

Heat Lamp Controls: For models equipped with heat lamps, two On/Off rocker switch are located on the front underside of the hood for independent control of the heat lamps **(Figure 21).**

SECTION 12
Maintenance

CAUTION: MAKE SURE POWER IS SWITCHED OFF AT SERVICE PANEL BEFORE SERVICING THE UNIT.

Grease Filters

Included with your range hood are grease filters along with a grease trough that should be washed at least once a month. The grease filters are dishwasher safe and should be washed in a mild soap or detergent. Reverse the instruction in **SECTION 10** *Finishing the Installation*, to remove the grease filters and trough. If the grease filters become damaged, replace with Air King Model PHGB1, PHGB2, or PHGB3 Grease Baffles.

CAUTION: ALLOW BULB TO COOL BEFORE REPLACING.

Changing the Lamps

Unscrew the lamp by turning in a counter-clockwise direction and remove from the socket. Replace with a PAR16 medium base 45W maximum Halogen lamp. Installation is the reverse of removal.

Cleaning

CAUTION: DO NOT USE GASOLINE, BENZINE, THINNER, HARSH CLEANSERS, ETC., AS THEY MAY DAMAGE THE RANGE HOOD.

1. Clean your range hood with a mild detergent, such as dishwashing liquid, and dry with a soft cloth. **NEVER USE ANY ABRASIVE PADS OR SCOURING POWDERS.** Completely dry before restoring power. **NEVER IMMERSE ELECTRICAL PARTS IN WATER.**
2. The blower assembly can be vacuumed when build up (dirt, lint, etc.) accumulates over time. The blower is permanently lubricated and does not require oiling.

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Troubleshooting Guide

Trouble	Probable Cause	Suggested Remedy
1. Hood does not operate when the switch is on.	1a. A fuse may be blown or a circuit tripped. 1b. Wiring is not connected properly.	1a. Replace fuse or reset circuit breaker. 1b. Turn off power to unit. Check that all wires are connected.
2. Hood is operating, but air moves slower than normal.	2. Obstruction in the exhaust ducting.	2. Check for any obstructions in the ducting including filter.
3. Hood is making a rattling noise.	3a. Filters are loose. 3b. Duct connection is loose. 3c. Damper is stuck.	3a. Turn off power to unit. Check that all filter screws are fully tightened. 3b. Turn off power to unit. Check that duct connection is tight. 3c. Turn off power to unit. Check that the damper is opening freely.

LIMITED WARRANTY

WHAT THIS WARRANTY COVERS: This product is warranted against defects in workmanship and/or materials.
HOW LONG THIS WARRANTY LASTS: This warranty extends only to the original purchaser of the product and lasts for one (1) year from the date of original purchase or until the original purchaser of the product sells or transfers the product, whichever first occurs.
WHAT AIR KING WILL DO: During the warranty period, Air King will, at its sole option, repair or replace any part or parts that prove to be defective or replace the whole product with the same or comparable model.
WHAT THIS WARRANTY DOES NOT COVER: This warranty does not apply if the product was damaged or failed because of accident, improper handling or operation, shipping damage, abuse, misuse, unauthorized repairs made or attempted. This warranty does not cover shipping costs for the return of products to Air King for repair or replacement. Air King will pay return shipping charges from Air King following warranty repairs or replacement
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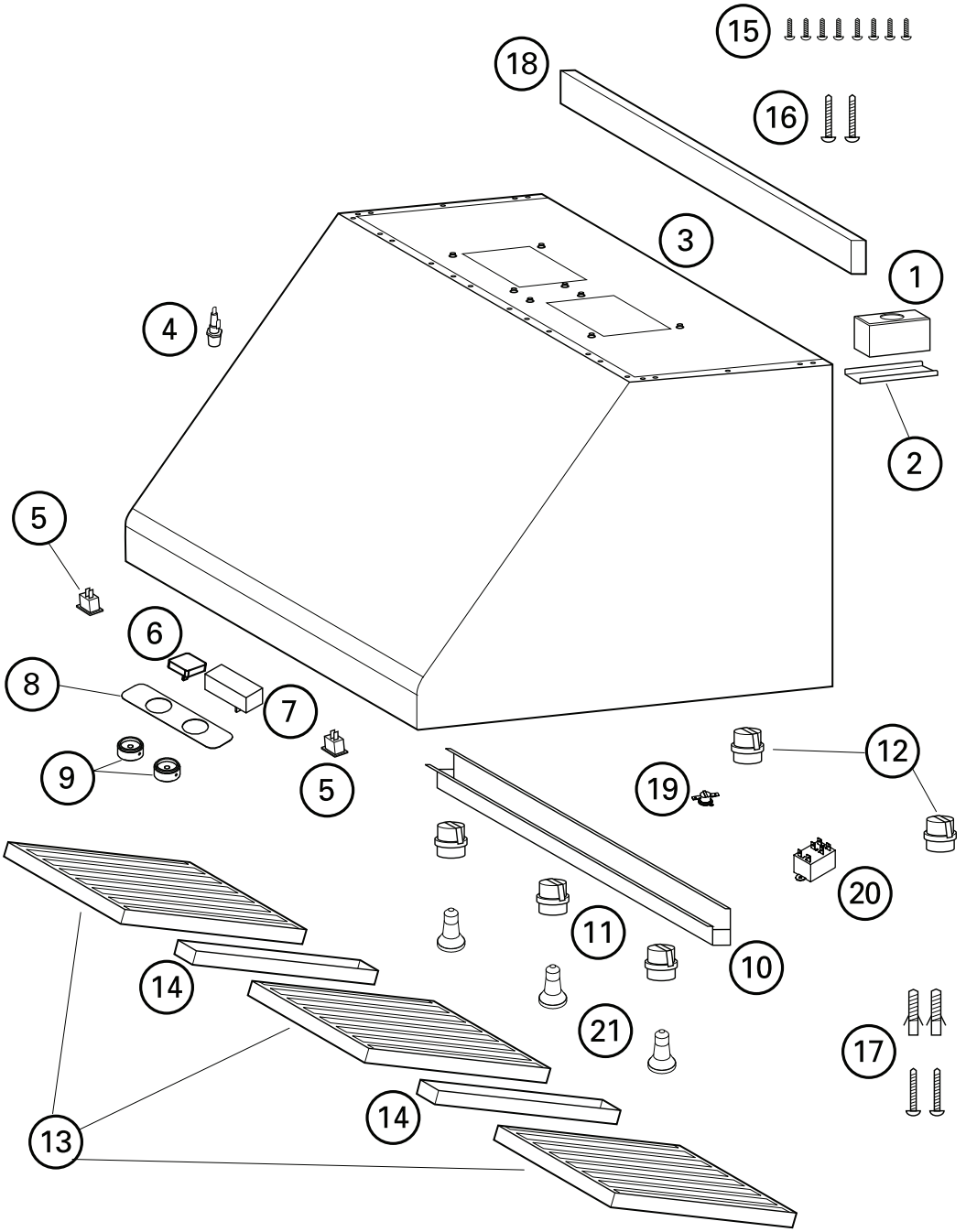
CUSTOMER SERVICE:

REPLACEMENT PARTS DIAGRAM



#	Qty.	Description	Replacement Part #
1	1	Wire Box	5S1136064
2	1	Wire Box Cover	5S1136065
3	1	Canopy	5S1136067
4	1	Fuse	5S1136068
5	2*	Heat Lamp Switch	5S1136069
6	1	Rotary Fan Switch	5S1136070
7	1	Rotary Light Switch	5S1141013
8	1	Switch Plate	5S1142010
9	2	Knob	5S1142011
10	1	Grease Trough - 30"	5S1136074
		Grease Trough - 36"	5S1136089
		Grease Trough - 42"	5S1136090
		Grease Trough - 48"	5S1136091
11	**	Halogen Lamp Holder	5S1136075

#	Qty.	Description	Replacement Part #
12	1*	Heat Lamp Holder	5S1136076
13	**	Baffle Filter - PHGB1	5S1136077
		Baffle Filter - PHGB2	5S1136078
		Baffle Filter - PHGB3	5S1136079
14	**	Filter Spacer - 30" Series	5S1136080
		Filter Spacer - 48" Series	5S1136081
15	**	3/4" Screw	5S1136086
16	**	2" Wood Screw	5S1136087
17	**	#8 Screw w/Wall Anchor	5S1136088
18	1	Wood Mounting Strip	5S1136084
19	1	Thermostat	5S1141012
20	1	Relay	5S1239008
21	**	45w PAR16 Bulb	5S1136099

* Models with Heat Lamps Only
** Quantity will vary depending on specific model

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